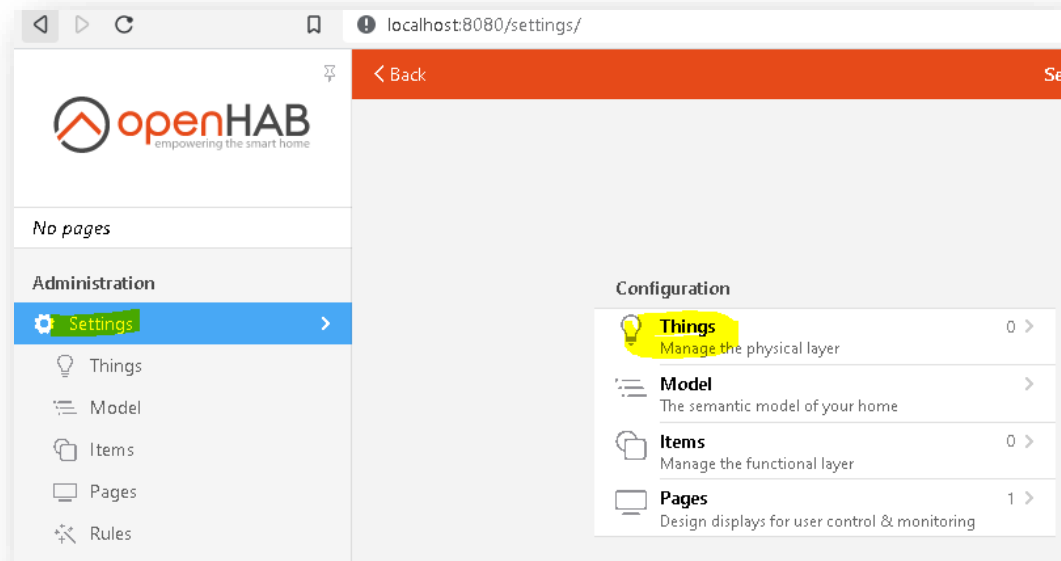


Step 7

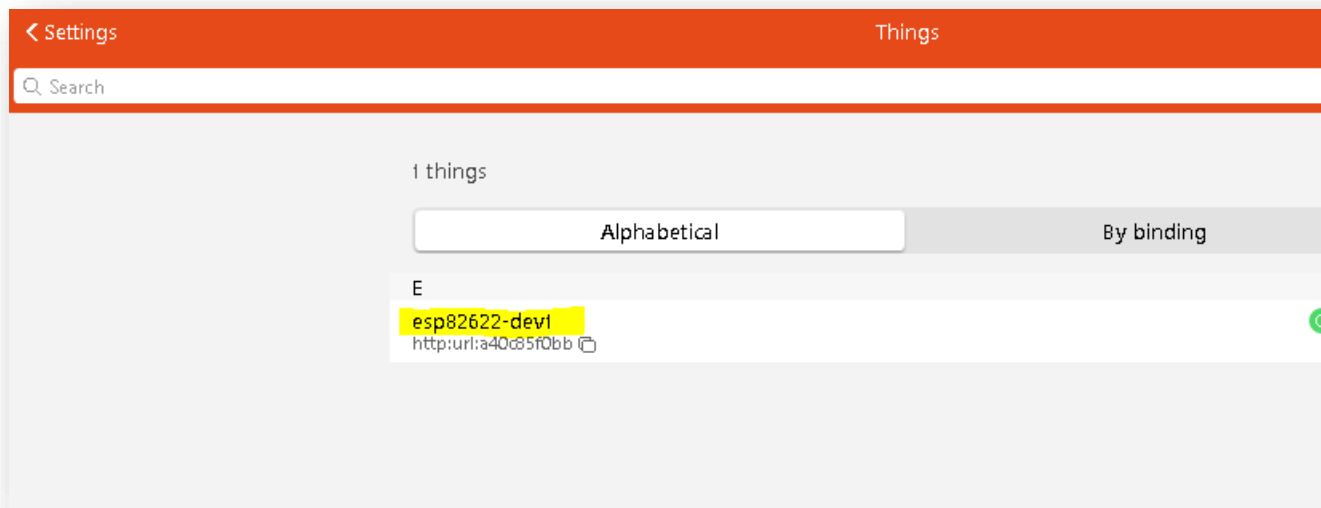
Enabling a new Switch PIN to OpenHAB

To add our newly flashed (kamoteq) esp8266 nodeMCU to the OpenHAB follow the below steps

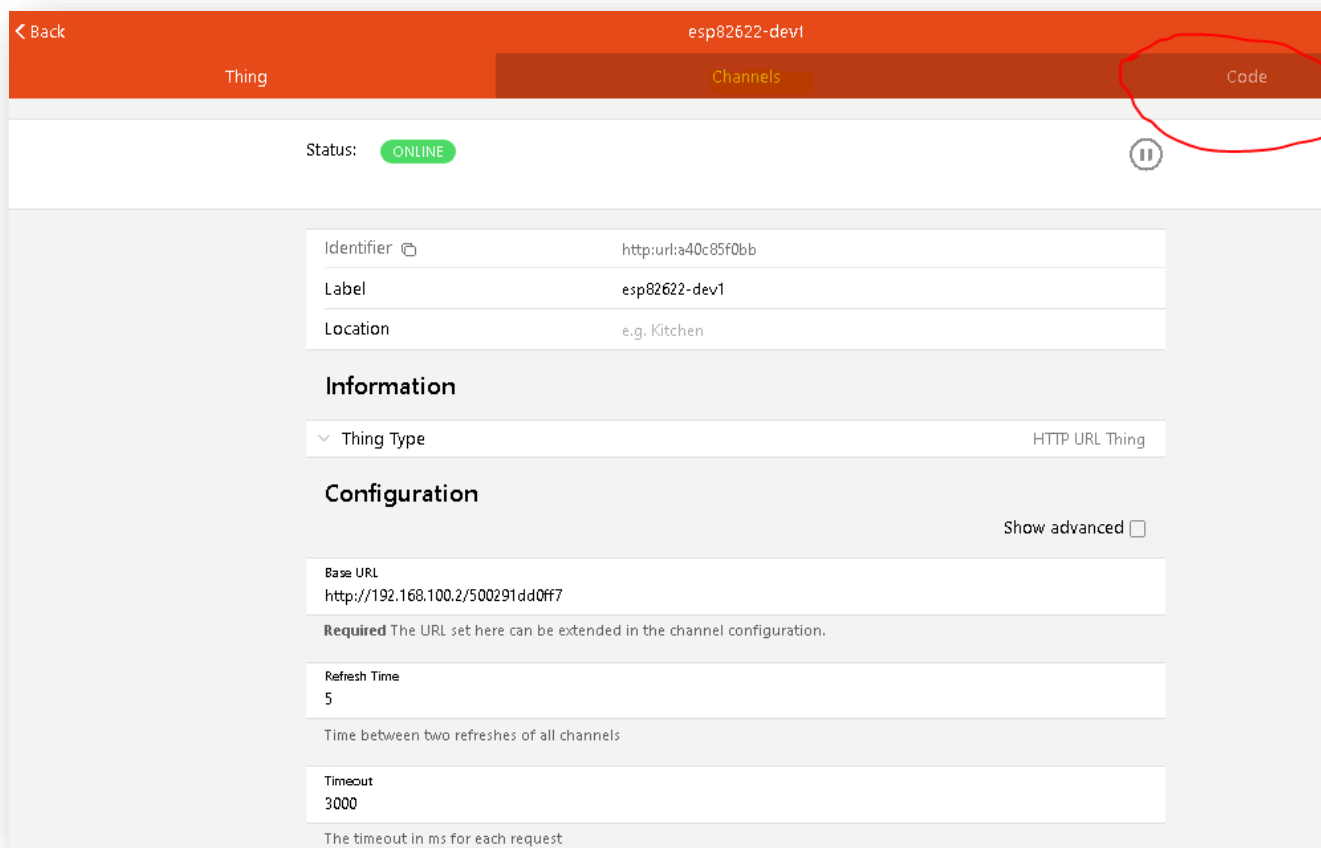
Click **Settings** > and **Things**



Click the newly added ESP device



Click the “Code” tab



This will display the editing window

< Back		esp82622-dev1
Thing		Channels
1	UID: http:url:a40c85f0bb	
2	label: esp82622-dev1	
3	thingTypeUID: http:url	
4 ▾	configuration:	
5	authMode: BASIC	
6	ignoreSSLErrors: false	
7	baseUrl: http://192.168.100.2/500291dd0ff7	
8	delay: 0	
9	stateMethod: GET	
10	refresh: 5	
11	commandMethod: GET	
12	timeout: 3000	
13	bufferSize: 2048	
14		

Add these lines of codes and change the <changeme> with the pin number you want to use

Available pins for output switches are GPIO 4,5,12,13 & 14

----- code -----

channels:

```
- id: nu_pin<changeme>
  channelTypeUID: http:switch
  label: nu_pin<changeme>
  description: null
  configuration:
    onValue: "1"
    offValue: "0"
```

```
stateExtension: /?req=stat&pin=<changeme>
commandExtension: /?req=set&pin=<changeme> &mode=%2$s
stateTransformation: JSONPATH:$.status
```

----- code -----

Or use this (since the setup lab used pin 14/D5 for testing)

----- code -----

channels:

- id: nu_pin14

channelTypeUID: http:switch

label: nu_pin14

description: null

configuration:

onValue: "1"

offValue: "0"

stateExtension: /?req=stat&pin=14

commandExtension: /?req=set&pin=14 &mode=%2\$s

stateTransformation: JSONPATH:\$.status

----- code -----

NOTE! channels: must be on the same line as the configuration inside the editor

```

UID: http:url:a40c85f0bb
label: esp82622-dev1
thingTypeUID: http:url
configuration:
  authMode: BASIC
  ignoreSSLErrors: false
  baseUrl: http://192.168.100.2/500291dd0ff7
  delay: 0
  stateMethod: GET
  refresh: 5
  commandMethod: GET
  timeout: 3000
  bufferSize: 2048
channels:
  - id: nu_pin14
    channelTypeUID: http:switch
    label: nu_pin14
    description: null
    configuration:
      onValue: "1"
      offValue: "0"
      stateExtension: /?req=stat&pin=14
      commandExtension: /?req=set&pin=14&mode=%2$s
      stateTransformation: JSONPATH:$.status

```

Warning! Alignment or indentation on the source code is very important otherwise this will throw an error

If you want to add more switches, just copy and update the pin number on just make sure you follow the Correct indentations for the coding

Once you confirmed you're done, then you can go ahead and save the changes by clicking the button "Save (Ctrl+S)" on The far upper right side

< Back

esp8262-dev1

Thing

Channels

Code

```
1  UID: http:url:a40c85f0bb
2  label: esp8262-dev1
3  thingTypeUID: http:url
4  configuration:
5    authMode: BASIC
6    ignoreSSLErrors: false
7    baseUrl: http://192.168.100.2/500291dd0ff7
8    delay: 0
9    stateMethod: GET
10   refresh: 5
11   commandMethod: GET
12   timeout: 3000
13   bufferSize: 2048
14  channels:
15  - id: nu_pin14
16    channelTypeUID: http:switch
17    label: nu_pin14
18    description: null
19    configuration:
20      onValue: "1"
21      offValue: "0"
22      stateExtension: /?req=stat&pin=14
23      commandExtension: /?req=set&pin=14&mode=%2$s
24      stateTransformation: JSONPATH:$.status
25
```

Now click the Tab “Channels” and click the newly created channel

< Back

esp8262-dev1

Thing

Channels

Unlink

Search channels

All

Linked

Unlink

nu_pin14

nu_pin14 (Switch)

Add Channel

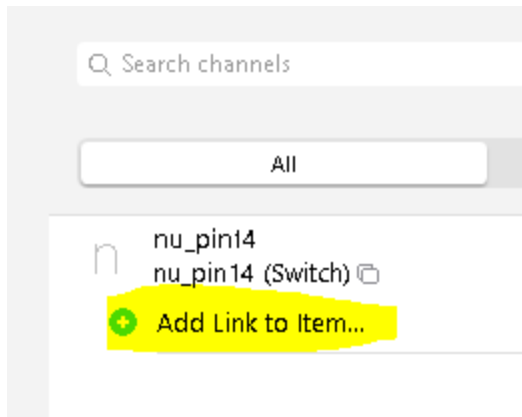
Add Equipment to Model

Add Points to Model

Unlink all Items

Unlink all and Remove Items

Click “Add Link to Item”



Select the “Create a new Item”

A screenshot of a dialog box titled "Link". It has three sections: "Channel" with "nu_pin14" and "http:url:a40c85f0bb:nu_pin14 (Switch)", "Item" with two radio buttons, and "Item to Link" with a red icon. The "Create a new Item" radio button is selected and highlighted in yellow. A blue "Link" button is at the bottom right.

Channel

nu_pin14
http:url:a40c85f0bb:nu_pin14 (Switch)

Item

☒ Use an existing Item

☐ Create a new Item

Item to Link

Link

In the **Category** entry type “switch” and click the **Link** button to finish

Channel

nu_pin14

http://a40c85f0bb:nu_pin14 (Switch)

Item

☐ Use an existing Item

☒ Create a new Item

Name

esp82622dev1_nu_pin14

Label

nu_pin14

Type

Switch

Category

switch

Semantic Class

Point

Semantic Property

None

Parent Group(s)

Profile

Profiles define how Channels and Items work together. Install transformation add-ons to get additional profiles.
[Learn more about profiles.](#)

☒ Default

☐ Follow

☐ Timestamp on Update

☐ Timestamp on Change

☐ JSONPATH

Link

Click the new **Switch Point**

nu_pin14

nu_pin14 (Switch)

nu_pin14

Switch · Point

esp8262dev1_nu_pin14

+

Add Link to Item...

1

^

OFF >

>


Configure Channel

Remove Channel

On this page, you can test the new switch functionality by clicking the button on/off

nu_pin14

esp8262-dev1



Analyze

Link

Channel

nu_pin14

esp8262-dev1

http:url:a40c85f0bb:nu_pin14 (Switch)

ONLINE

Item

nu_pin14

Switch · Point

esp8262dev1_nu_pin14

>

Unlink & Remove Item

Unlink Only

This completes STEP 7 (Enabling a new Switch PIN to OpenHAB)

Congratulations!

Proceed to STEP 8 (Add DHT Sensor Channels)

End